STUDENT COPY · SET A

Class 5 · Science Olympiad

Total questions	Total marks	Time	Negative marking
50	60	60 minutes	None

Name: _____ Class/Section: _____ Roll no: _____

Each question has four options, of which only one is correct. Mark your answer on the answer sheet. The Achievers Section carries higher marks per question. Your teacher has the answers.
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Logical Reasoning

10 questions · 1 mark each · 10 marks

Q1. A father is 23 years older than his son. The son is 16 years old now. How old will the father be after 8 years?

(A) 48 years (B) 39 years (C) 55 years (D) 47 years

Q2. All but one of these numbers are multiples of the same number. Find the one that is not: 50, 60, 72, 96, 108

(A) 50 (B) 60 (C) 96 (D) 108

Q3. If DOG is written as 4 - 15 - 7 using the positions of the letters in the alphabet, how is CAT written?

(A) 3 - 1 - 20 (B) 20 - 1 - 3 (C) 4 - 2 - 21 (D) 24 - 26 - 7

Q4. In a certain code JAR is written as LCT. How is DOG written in that code?

(A) GRJ (B) BME (C) IQF (D) FQI

Q5. Anita walks 8 m towards north, turns right and walks 4 m, then turns right again and walks 8 m. How far is Anita from the starting point, and in which direction?

(A) 4 m, East (B) 12 m, North (C) 4 m, West (D) 8 m, East

Q6. Arun walks 10 m north, then 9 m east, then 5 m south. Where is Arun now, relative to the starting point?

(A) 10 m north and 9 m east (B) 6 m north and 9 m east

(C) 5 m north and 9 m east (D) 5 m north and 10 m east

Q7. If the 8th of a month is a Monday, what day of the week is the 21st of the same month?

(A) Monday (B) Saturday (C) Tuesday (D) Sunday

Q8. Five friends A, B, C, D and E sit in a row of five seats. A sits at the extreme left end, D sits at the extreme right end, C sits exactly in the middle and B sits between A and C. Who sits in the fourth seat from the left?

(A) C (B) B (C) D (D) E

Q9. In a row of 20 children, Arjun is 9th from the left end. What is Arjun's position from the right end?

(A) 13th (B) 12th (C) 11th (D) 14th

Q10. Which one does NOT belong with the others?

(A) Triangle (B) Square (C) Circle (D) Rectangle

Science

35 questions · 1 mark each · 35 marks

Q11. Which process do green plants use to make their own food?

(A) Digestion (B) Photosynthesis

(C) Respiration (D) Transpiration

Q12. Which case shows stored energy changing into motion energy?

(A) Stretched rubber band held (B) Water stored in a tank

(C) Stone resting on a shelf (D) Released stretched rubber band

Q13. What is the natural satellite of the Earth called?

(A) The Sun (B) A comet (C) The Moon (D) Mars

Q14. Hot tea spills on Tara's hand. What should she do first?

(A) Rub ghee on the burn (B) Tie it with tight cloth

(C) Prick any blister (D) Hold it under cool water

Q15. Which nutrient is the main source of energy for our body?

(A) Minerals (B) Water

(C) Vitamins (D) Carbohydrates

Q16. In which case is work done in the scientific sense?

(A) holding a bag without moving (B) standing with a box in hand

(C) pushing a wall that stays still (D) pushing a trolley that rolls

Q17. Which organs help us to breathe?

(A) The heart (B) The stomach (C) The lungs (D) The kidney

Q18. Which pair both pass through a very different young stage before becoming adults?

(A) Frog and lizard (B) Butterfly and frog

(C) Fish and hen (D) Hen and butterfly

Q19. What do we call the water cycle stage where clouds form?

(A) Filtration (B) Condensation

(C) Precipitation (D) Evaporation

Q20. Sand and salt are stirred in water, then filtered. How can the salt be got back from the filtrate?

(A) let salt settle down (B) filter it again

(C) evaporate the water (D) use a magnet

Q21. Which animal is known as the ship of the desert?

(A) Donkey (B) Horse (C) Camel (D) Elephant

Q22. At a camp, children use a hand pump and a solar cooker. Which statement is correct?

(A) Pump has a screw; cooker uses diesel
(B) Pump has a pulley; cooker uses moonlight
(C) Pump has a lever; cooker uses sunlight
(D) Pump has a wheel; cooker uses coal

Q23. Which part of a plant takes in water from the soil?

(A) The fruit
(B) The leaf
(C) The root
(D) The flower

Q24. A lunch of only rice and potato is mostly energy-giving. Which addition best improves balance?

(A) more rice and ghee
(B) dal and spinach
(C) sugar and butter
(D) chips and pickle

Q25. Which planet is known as the Red Planet?

(A) Saturn
(B) Jupiter
(C) Venus
(D) Mars

Q26. A child often has hard stool. Which food change would best add roughage?

(A) add more polished rice
(B) add salads and fruits
(C) add extra ghee to roti
(D) add more sugar to milk

Q27. Which of these is an acid?

(A) Soap solution
(B) Baking soda solution
(C) Lime water
(D) Lemon juice

Q28. A boy pushes a wall hard, but it does not move. Why is no scientific work done on the wall?

(A) Energy is not used
(B) Wall does not move
(C) Wall loses weight
(D) Force becomes zero

Q29. Where do fish take in oxygen from water?

(A) Through their fins
(B) Through their scales
(C) Through their gills
(D) Through their tail

Q30. A planet usually takes longer to go around the Sun when it is what?

(A) Smaller in size
(B) Closer to the Sun
(C) Farther from the Sun
(D) Warmer than Earth

Q31. Which of these is a herbivore — an animal that eats only plants?

(A) Tiger
(B) Cow
(C) Eagle
(D) Lion

Q32. A small hot water burn turns red but the skin is unbroken. What should be done first?

(A) cool under running water
(B) prick the red skin
(C) apply butter on it
(D) rub with a dry cloth

Q33. Which of these is a non-biodegradable waste?

(A) Plastic bag
(B) Paper
(C) Cotton cloth
(D) Vegetable peel

Q34. A ramp is used to load a heavy box into a van. How does the ramp help?

(A) no force is needed at all
(B) more force over shorter distance
(C) box becomes lighter in mass
(D) less force over longer distance

Q35. How many legs does an insect have?

(A) Eight (B) Ten (C) Four (D) Six

Q36. During dengue season, which habit best stops mosquitoes from multiplying near home?

(A) cover food before eating (B) boil milk before drinking

(C) empty water from coolers (D) wash hands after toilet

Q37. Which planet is nearest to the Sun?

(A) Venus (B) Earth (C) Mars (D) Mercury

Q38. An animal has moist skin, lays eggs in water, and lives both on land and in water. Which group does it belong to?

(A) reptile (B) fish (C) mammal (D) amphibian

Q39. Green colour in leaves is due to which pigment?

(A) Haemoglobin (B) Chlorophyll (C) Melanin (D) Carotene

Q40. A longer ramp to the same truck height helps load a box because it...

(A) needs less force over more distance (B) needs more force over more distance

(C) needs same force over less distance (D) needs less distance for same force

Q41. Which gas in the air do we need to breathe?

(A) Nitrogen (B) Helium

(C) Oxygen (D) Carbon dioxide

Q42. Raju mixes sand, salt and water, then filters the mixture. What is mainly left on the filter paper?

(A) Salt (B) Water

(C) Dissolved salt (D) Sand

Q43. Water freezes into ice at which temperature?

(A) -100°C (B) 10°C (C) 0°C (D) 100°C

Q44. A mixture has sand, iron filings and salt. Which method should be used first to remove only the iron filings?

(A) magnetic separation (B) sieving

(C) evaporation (D) filtration

Q45. Which liquid helps digest food in the mouth?

(A) Sweat (B) Bile (C) Blood (D) Saliva

Achievers Section

5 questions · 3 marks each · 15 marks

Q46. A boy pushes a heavy box but it does not move. Which force is stopping it?

(A) Friction (B) Gravity (C) Buoyancy (D) Magnetism

Q47. Why is a wet cloth placed on the forehead of a person with fever?

(A) Water adds heat to the body (B) Evaporating water cools the skin

(C) Water makes the skin thicker (D) The cloth blocks the fever

Q48. A gardener waters a plant but keeps it in a completely dark cupboard. The plant slowly turns yellow and dies. Why?

(A) Without light it cannot make food by photosynthesis

(B) Plants need soil, not water

(C) Water is harmful to plants in the dark

(D) The cupboard has too much oxygen

Q49. Two identical glasses hold water at 10°C and at 80°C. In which glass will a sugar cube dissolve faster?

(A) Both at the same speed

(B) The glass at 80°C

(C) Neither will dissolve

(D) The glass at 10°C

Q50. You see a bird with a long, sharp, pointed beak catching fish. What does the beak shape tell you?

(A) It is used for digging soil

(B) It is suited to spearing and gripping fish

(C) It is used for sipping nectar

(D) It is used for cracking seeds

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